

The Houston Technology Center and the Gulf Coast Regional Center of Innovation and Commercialization, in partnership with the NASA Johnson Space Center (JSC), are hosting a series of JSC Connect events in 2014. Each event focuses on a technology area of strategic interest to NASA's human spaceflight program, which may also have considerable potential for non-aerospace applications.

The purpose of the JSC Connect events is to identify potential partnerships for joint dual-use development collaborations or potential commercialization of JSC's technologies. Attendees should be representatives of those organizations with an active interest in the technology area and in potentially partnering with the JSC or other industry or research institution organizations. In addition to presentations by JSC project teams, attendees will also have an opportunity to give a brief presentation on their activities and/or interests in the technology.

The first JSC Connect event was held on Thursday, January 9, at the Houston Technology Center, covering technologies related to Water Quality & Purification, with presentations by the JSC and 6 other organizations on water technologies.

Because of the nature of these events, attendance will be limited and invitations will be extended only to organizations with an interest in the technology area and potentially having a partnership with the JSC or other attendees.

If interested in any of the event technology areas, please complete the online registration form so we can include you in the events for those technology areas which may have the biggest impact for you or your organization: www.gulfcoastrcic.org/JSC_Connect_Registration.htm

Please forward this message to the appropriate individuals in your organization, or with any organizations you are aware of, who have an active interest in technologies in any of the following areas:

- **Robotics – Wednesday, February 26 – location near the JSC**

JSC is renowned for its space-based humanoid robots and robotic vehicles and seeks to advance robotic technologies in a number of areas including: operation of humanoid robots unaccompanied in hazardous conditions, advancements in exoskeleton to include additional powered degrees of freedom and increased sensing capability, predictive path planning for autonomous robotic vehicles, and advanced robotic vehicles with improved active suspension, obstacle avoidance, and higher energy density batteries.

Planned JSC presentation topics include humanoid robotics, exoskeleton, rovers, exercise systems and electronic procedures & Google glass.



- Telemedicine – Thursday, May 8 – location TBA**
 Long distance human spaceflight missions require the ability to support and sustain crew health and respond to health related issues. This requires crew training in performance of medical procedures and diagnoses; robot-assisted telemedicine capabilities for complex procedures; and telepresence for involvement of ground medical personnel when needed. Technology investigation at JSC includes the development of Integrated Medical Systems; development of biosensors, point-of-care imaging, and lab analysis with integrated ground capabilities; medical training of crew including just-in-time training and remote guidance where there is a communication delay; use of telepresence; telerobotics for medical evaluations and procedures using specialized or humanoid robotics; and virtual and augmented reality. Important areas of development include minimally invasive devices and techniques, integrated wireless peripherals, holographic projection of objects, remote motion/gesture control, teleoperation of robotic systems, vision processing, and development of guided medical procedures.
- RFID – Thursday, June 26 (preliminary date) – location TBA**
 The JSC has made significant contributions to the further development and refinement of RFID technologies for Human Space Flight use, including RFID technologies related to item-level tracking and localization of heterogeneous population of tagged assets and/or ubiquitous sensing with no-battery sensor tags or Complex Event Processing (CEP) of RFID data streams. Many of these technologies may be applicable for use in the industrial, healthcare, retail, transportation, maritime and education business ecosystems.
- Energy Storage & Management – Thursday, August 21 (preliminary date) – location TBA**
 The NASA Johnson Space Center has a long history of developing innovative and advanced technologies in this area, minimizing size and weight of energy systems without compromising power quality or reliability for the spacecraft. New challenges include technologies associated with safe, reliable high efficiency fuel cells and environmentally friendly solutions to energy storage and management. These innovations have the potential for direct applicability to challenges facing non-space related fields such as oil and gas and the automotive industry.

The NASA Johnson Space Center is actively developing a broad range of new technologies to support the human spaceflight program, and many of these technologies have significant potential for non-aerospace applications, that may provide significant benefits for partners by working together with JSC's technology development teams. For more information on the JSC's Co-Development and Partnership Opportunities - <http://go.nasa.gov/19qKXk0>.

Please forward this message to the appropriate people in your organization and explore the possibilities of leveraging NASA's investment in these technologies by participating in the upcoming JSC Connect events.

For more information, please contact:

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